the Cannon
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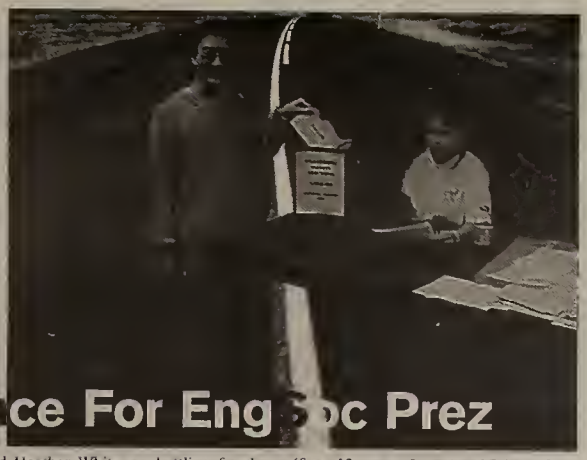
AN OFFICIAL NEWSPAPER OF THE UNIVERSITY OF TORONTO ENGINEERING SOCIETY



WHAT'S INSIDE

Editorials 2
- Fixing ECF
- As The Taike Turns...
- Letters To The Editor

Opinions 3
- The Taike editor and staff defend the Taike

Election Special 5
- Engineering Temporary Special Levy Fund: the details
- Candidate statements from those running
- Distribution of funds from the Levy Fund, 1996-98

Skule™ News 8
- VP External Files
- Air and Waste Management Conference
- Stanland Returns!

NATIONAL ENGINEERING WEEK 9
- What is it
- What's happening this week at UofT
- What's happening elsewhere

Career Centre 10
- Report on the "Engineering Summer Job Search" seminar
- Career Centre events this month

Everything Else 11
- EngSci Club News (short)
- Troubled Teresa has a Tantrum
- Technoguru, brought to you by the letter "T"

Engineering Society Elections

Three-Way Race For Eng Soc Prez

by Julian Dunn COMP 0T0

The race is on for Engineering Society officer positions! The election race, which starts today, promises to be an exciting one, with the presidency being hotly contested by three candidates, and a two-way race for each of two vice-president positions. Two vice-presidents have already been acclaimed: Struan Vaz is the new Vice-President: Activities and Gord Bennett is the new Vice-President of Finance.

The candidates running for the position of President of the Engineering Society are Paul Andersen, Drago Banovic and Karen Virk. Mandy Goundry and Rono Sinha are both running for the position of Vice-President: External, and Anna Edwards and Heather White are battling for the position of Vice-President: Internal.

With the large number of candidates, it promises to be an exciting race. You can read the candidates' statements and platforms on pages 6 and 7 of this issue of *The Cannon*.

The candidates have until Wednesday to campaign, and voting takes place in the atrium of the Sandford Fleming building (outside the PEY office) on Thursday (from 10 a.m. to 5 p.m.) and Friday (from 10 a.m. to 3 p.m.) of this week. Please remember to bring your student card.

Also this year, students will be asked to approve the continuing collection of the $100/year "Temporary Special Levy Fund" fee. The money from this fund is distributed amongst the various departments in the faculty for use in upgrading equipment used by undergraduate students. You can read more about the levy fund on page 5 and page 7 of this issue.

The Engineering Society collects a fee from every undergraduate students, so it is extremely important that you come out and vote, and decide what is done with your money next year. See you at the polls!

University of Toronto Engineering Society

Elections 1998-99

Candidates listed in alphabetical order

President

ANDERSEN, Paul • BANOVIC, Drago • VIRK, Karen

Vice-President: External

GOUNDRY, A. (Mandy) • SINHA, Rono

Vice-President: Finance

BENNETT, Gord (acclaimed)

Vice-President: Activities

VAZ, Struan (acclaimed)

Vice-President: Internal

EDWARDS, Anna • WHITE, Heather

Interview With Professor Steve Mann

The Perpetually Wired Mann

by Dave Lie ENG SCI 9T9

Recently I had the opportunity interview Professor Steve Mann, the latest addition to the Computer Group here at the University of Toronto. Professor Mann recently completed his Ph.D at MIT and has come here to the University of Toronto to continue is work. He is widely known for his work on the invention of wearable computers "wearcomps" and personal imaging systems.

Considering his busy schedule, as well as the fact that Professor Mann is one of the most internet-aware individuals around (he's constantly connected to the net via his wearable computer) we ended up doing the interview over email. He responding within minutes, writing in the typical stream-of-consciousness-style-with-utter-lack-of-capitalisation characteristic of a hardcore Netizen. I also found out later, interestingly, that the lack of capitalisation is actually a habit that comes from typing on one-handed input devices. This is what I found out:

D.L.: I attended your "Distinguished Speaker's Talk" at U of T and that's where I first got the idea to do the interview. Since we've had difficulty hooking up face to face, I'll just send you some questions here and let you feel free to answer some or all of them at your leisure.

see "The Most", page 11

Chariot Race Results!

The Winner, and still Champion – ECE Club!
Somewhere down the road – Mech Club!
Still further back – NY (Next year think lighter materials)
Behind those guys – Chem (is your driver ok?)
Didn't run but didn't cause me any trouble – Civ/Geo (hope to see you next year)
Not in the running but worth mentioning – SAC & F!rosh (Tied, and a special commendation for running the first ever joint Artsie/Engineering Chariot).
Second Last – MMS
Very Last – Indy

Scandal!

Due to a misinterpretation of the term "return" in section 17 of the rules of Ye Grande Olde Chariot Race, MMS was to be disqualified for their failure to return the Chem and Indy chariots. Since Chem did not complain (and ran in the race) and due to the willful damage/destruction of Blue & Gold Committee and CEGSA property by the Indy club (1 car, 2 coffins, and a barbecue), special consideration was taken by the judges and MMS is allowed to finish before Indy.

Thank you to all the clubs who participated (especially ECE), and to the assistant judges Matt, Sean, and Nat for their invaluable help.

Note that as stated in section 13 of the rules of Ye Grande Olde Chariot Race the judge is officially declared to be infallible and all decisions are final.

Signed this 26th day of February

Ryan Morris ELEC 9T9
Blue & Gold Committee Chair

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AN OFFICIAL NEWSPAPER OF THE UNIVERSITY OF TORONTO ENGINEERING SOCIETY

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PLEASE NOTE
The Cannon is a medium through which undergraduate engineering students can express their opinions. The views expressed heirein are those of the author and do not neeessarily represent those of the editors or the Engineering Society unless so indicated.

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Editorials

Listen...

by Gina Seto ENGSCI COMP 9T9

Last issue, Tina Piper wrote a letter to the editors about her experiences as a female in engineering. Although it appeared to have been prompted by certain articles appearing on the pages inserted into every issue of the last *Toike*, it had been something that she had been meaning to write about for a long time. The things that she had to experience over her years here (harassment, disrespect, seeing offending articles in print, more harassment) was certainly an eye-opener for myself. Nobody should have to go through what she went through.

Those articles she cited were not written by the *Toike* editor. (He did help in their layout). On reading those articles contained within the pages of the *Toike*, Tina naturally assumed that the editor was responsible for it. Subsequently, the editor of the *Toike* was the subject of several blistering remarks in her letter. We see now that she got the wrong guy. In response to my January editorial and the mistake in Tina's letter, the *Toike* editor wrote a long, noisy rebuttal (which will be appearing in this issue with the personal attacks removed). Not once did his rebuttal say, "Tina, I see what you've been through and something should be done about it." After reading her article, wouldn't that be the first thing on one's mind? What value is there in shifting the focus to side issues when there is something so immediately important to be addressed? Hey, it's not a *Toike* editor vs. Tina thing, and it is definitely not a *Cannon* vs. *Toike* thing. It is a hard letter, with a strong message. Could everybody please stop focusing on the technicalities and the apparent sensationalism in Tina's article and listen to her?

These are things that have happened to our *classmate*. We are part of a school that has produced this kind of experience, and it is not an isolated one. Don't look around for somebody to blame. Instead, do something. Every one of us can do something to take responsibility.

Guys: respect your female classmates. Speak out when you see somebody else disrespecting a classmate. Girls: let it be known if you feel you have been wronged. Report harassing behaviour or e-mail. Volunteer some time to mentor first-year female engineering students. Everybody: BREAK some traditions. Write to the administration to impose stricter policies or to initiate careful monitoring concerning TA behaviour. There many many more things that can be done.

If my editorial seems one-sided, that's because it is. I have not considered the harassment that males receive from females in engineering, or school in general. I am only talking about one problem. The fact that males would be harassed does not lessen the huge problem that females face.

Julian's September editorial was all about people not listening to each other and just trying to force their opinions in. It seems to be something that can't be said enough.

Improving The State of ECF

by Julian Dunn COMP 0T0

In the previous issue of *The Cannon*, we reported on ECF's decision to shut down modem access. It struck me as odd that there was no outcry from students at this move, but I soon realized why. It seems that every time anybody complains about the operation of ECF, the offending problem is simply removed, usually resulting in some reduction of service. This is why nobody bothers complaining any more about the slow deterioration of ECF; any complaints lodged will only accelerate the deterioration thereof.

Take, for instance, the discontinuation of modem access. Certainly it is true that the modems are old and need to be upgraded, and it is difficult to justify throwing more money at obsolete equipment just to keep it running in its current state. But the impetus to discontinue the modem access came from one student complaining about the unreliability of the services provided for funds paid, which initiated a heated debate between other students and the ECF administrators. It would appear to the observer that the ECF administrators acted out of spite, and in order to get the "last laugh", pulled the plug on the modems, thus, in their eyes, "solving the problem".

Then, we have the ECF terminal room in the Engineering Annex, which is bitterly and roundly referred to by students as "the hellhole". Five minutes ago, I paid EA109 a visit, and counted 10 working terminals, and 19 broken ones. To the credit of the ECF administration, some of the older terminals in SF1013 have been moved to EA109, but the state of the room is still unacceptable. Personally, I have an Algorithms lab in that room: there are about 10 terminals for 40 people!

My point is that the ECF administrators should stop treating student complaints as a thorn in the rear, and take them seriously. It may be shocking to them that on occasion, students actually complain about real problems. Our faculty spends large sums of money trying to attract the province's best high school students, boasting that the UofT is on the cutting-edge of technology development. Certainly we develop CPLD chips better than anyone else, but our computing facilities here in engineering are atrocious compared with other schools like Carleton. Our "temporary special levy" fund gives ECF several thousand dollars a year for equipment upgrades. Let's see that money used to make ECF the best university computing facility in the province.

LETTERS TO THE EDITOR

A Response

by Adam Devita ECE 9T9

[Re: The Toike and Tradition in Engineering, The Cannon, *Feb. 10, 1998]*

Building a float and having a parade on UofT day isn't wrong. Attacking it really weakens the article. Yes, it is silly. It is also a harmless, fun way for Engineers and the LGMB to attract attention to themselves. The building of the float was also a good experience for those involved. Try it.

As for the atmosphere of sexism that you feel is in engineering, I'm happy that you are speaking up. TA's that attempt to trade marks for dates are abusing their power. Any TA that suggests such a thing is guilty of academic dishonesty and harassment. They deserve to be humiliated. Harassment, like many other problems in society, is to be solved by sending clear messages of what behaviour is acceptable, and what is not. I'm sure many male engineers are completely unaware of gender issues. *The Cannon* is a medium to express to students concerns and opinions. Continue to use it.

If any engineer who reads this doesn't like the Toike, write for it. They are always looking for new (and/or funny) things to print. Skule™ papers take on their character from the writers and editors. By becoming a contributor, the final product changes to something greater. Volunteers are the lifeblood and soul of Skule™ Spirit.

A Message from TPTB

by Anna Edwards COMP 9T9 + 1, EngCom Chair

Okay. Here's a dirty word. Censorsbip. What does it mean? Who has the right to use it? For what reasons? How does one determine when it's permissible and when it's not? In university publications it becomes a real issue. Should we stifle the creativity of our students, in the name of "political correctness?" Strangely enough, this is an issue that the UofT Engineering Society tackled a few years ago, and the conclusion they came to may surprise some. While all Society publications ought to be reviewed by the chair of the Communications Committee and/or a special review committee, the final decision should be left up to the editors. They are the ones who know their readers best, know their writers best, and know their publication and its reputation best. And so this is how things work, for now anyway.

Last month, Ilan Kelman wrote an article in "The Cannon" expressing his reaction to the reviewing of his November "Cannon" article. The particular phrase in his original article that caused the uproar was "fantasy-cum-reality," which was followed a few words later by something about "nipples hardening." Ilan seems upset because "The Powers That Be", namely the Communications Chair, suggested the replacement of "cum" by something else, because in this context it seemed easily mistaken as a reference to semen. What Ilan overlooks, or more correctly, ignores, is the fact that "The Powers That Be" really don't have that much power. Anything suggested by the Communications Chair is exactly that: a suggestion. The final decision is left entirely up to the paper's editors. This fact leaves Ilan's article appearing somewhat irrelevant, albeit humorous. In the end, Ilan states that he is offended by the insinuation that he would use such crude humor in his article. Is this a suggestion that articles should be compared with their authors' names to determine if they need to be reviewed? Should some writers receive special consideration, and their articles be sent directly to print because "tbey would never stoop so low" as to make puns in bad taste? Perhaps anger over censorship is not the driving force behind last month's article. Perhaps the author should move to eliminate the review committees at the next AGM. Or, perhaps he'll just write another article to rebut what I'm saying right now.

I think I'll let the editors review that one without me. I, at least, trust their judgement.

Opinions

Toike Reader Defends the Publication

by David Patman CIV 0T1

In the last two issues of the *Cannon*, editorials have been published which question whether or not "traditional" Skule™ organizations and events (F!rosh week, Godiva week, homecoming parade float, etc.) should continue to exist, and have focussed on whether or not the *Toike Oike* should continue to be supported, given the content of the Jan. 1998 edition which appeared during Godiva Week.

As a student in Civil Engineering, and a contributor to the *Toike Oike*, I would like to add my 2 cents. I want to reply to some of the concerns raised in the *Cannon* editorials, and raise a few of my own.

First of all, to address the major points of inappropriate content in last month's *Toike*, the "Frisk her for a day" and "Godiva's box" are the two articles which have raised the ire of the editorialists, and likely many other students. These articles were part of the "Godiva Week insert" which was not part of the original *Toike*, and were added after the original *Toike* was approved by EngSoc. Every month, the *Toike* is censored and approved by EngSoc before it can be published, and overly offensive articles ARE removed.

I refer anyone who is interested to the *Toike Oike*'s website (*http://www.ecf.utoronto.ca/~toike*) to download what was originally intended to be published.

The Godiva Week insert was not written by the *Toike*, but by other traditional engineering groups such as the LGMB and "The Chief Attiliator and the Cannon Guard" and yes, it was more offensive than usual. It appears from previous issues of the *Toike* that "tradition" dictates that every year one issue of the *Toike* is "taken over".

Therefore the question shouldn't be just "Should the *Toike* be shut down", but should all the "traditions" of Skule™ be questioned in regards to their appropriateness in society. What is appropriate these days? There are many traditions at Skule™. The *Toike Oike* is one, but so are the BFC, the LGMB, Godiva Week, F!rosh Week, and others. All of these should be questioned. This is the major point which the two editorials make.

It is interesting that Tina Piper is questioning the appropriateness of F!rosh week in Jan. Where are all the people who think that F!rosh week is degrading to new students such as myself in Sept.?

Does anyone ask for a refund for class time lost when the LGMB interrupts a class? Does anyone complain about the smell of beer which wafts up from SUDS on Friday evenings? Did anyone complain at the large poster that was made up last term which was based on Men in Black proclaiming "Protecting Skule™ from the Artsies of the Universe."

Which leads to the "tradition" of "Artsie bashing". Personally, I think that it is a bit silly to insult other students. But it works both ways. During the frosh week, Arts & Science students were chanting at engineering students as well. Neither side seems to want to let the matter rest. I refer you to the Feb. 10th edition of "The Mike" where on page 12 Showey Yazdanian recommends annihilating the Engineering Department as a way to save money. To myself, that article was written as satire, and is supposed to be funny. But some students may (rightly or wrongly) take offense to it.

So what is appropriate then? I think the only way to completely eliminate any chance of offense is to not have any extracurricular activities at all. But do we want that? Are we here for a good time? Or to learn?

On a related matter, the funding of all of the "traditions" is a concern. Getting back to the *Toike Oike*, is funding its publication "like paying somebody else's $5000 fine and letting them smoke wherever they like?" Everyone pays for services they do not use. We all pay into all the facilities at the University, but do we all get our money's worth? Do we all use the Athletics Center? Do we all use the health facilities? How many of the clubs that Hart House houses are we members of? Do we all read the Varsity? We all are paying for things we do get the full benefit of, so that some people can enjoy them. (By the way, the Varsity contains a column "Shit or Get off the Potter". We all help fund it. Is that appropriate?)

I know that I've raised a lot of questions here. But I intended to write this not to question the validity of the traditions of Skule™, but to voice my opinion. I just felt that the *Toike Oike* was being used as a scapegoat when there are larger issues at stake.

I don't think that we should ban or stop funding the *Toike Oike*. As was correctly pointed out in January's *Cannon*, the *Toike Oike* is "A publication that is funded by the Engineering Society, written by engineering students and read by engineering students" and "does not necessarily reflect the opinions of our representative body". At the present, the *Toike Oike* staff is less than a dozen members. As the song "Garden Party" goes: "You can't please everyone, so you've got to please yourself". I don't think the solution to addressing the concerns of, and representing the student body is to shut down the Toike, but rather to make the content more reflective of the student body. The *Toike Oike* relies on everyone in Skule™ to provide content; we ask for contributions in nearly every issue. I invite anyone who doesn't like what is being produced to come out and contribute what they think is funny.

Toike Editor Defends his Publication

Paul "Oike" Hempel, This Year's Only Toike Oike Editor

Let us not forget the immortal words: *Judge not lest ye be yourself judged.*

Congratulations Tina Piper, you've got my attention! Let me start off by saying that because I am not a misogynist, I refuse to hate you on the basis of your gender. However, that does not preclude my dislike of the views you expressed in your article last month. Further, I address this article specifically to you because I take seriously the *Cannon* disclaimer which states "The views expressed herein are those of the author and do not necessarily express those of the editors or the Engineering Society." In fact, I refuse to believe that everyone shares your negative views about engineering because I happen to know people (including Eng. Sci.'s and females) who have specifically told me they disagree with you. I do too, but I'm not angry. I'm just disappointed that you feel the way you do. When you assert such negative and bitter opinions at least do others the courtesy of getting the facts right. The *Toike* does not promote misogynism and contrary to your superficial investigation of "previous issues", clip art and comments of a misogynistic nature are not the norm, at least not in my *Toike* (ironically, the *Toike*, unlike the *Cannon*, passes through a review committee that has female members, a fact you neglected to mention). Which brings me to an important point. You didn't bother to find out who was responsible for the material in the Jan. *Toike* which you erroneously (and thus odiously) attributed to me. For the record, every single criticism you had with respect to the Jan. issue had to do with the stolen *Toike* insert (didn't two mail sections give you a clue that you were reading two disjoint publications –either way, you should have done some thorough research before criticizing me). My *Toike* consisted of the outer 8 pages, the insert consisted of the inner 8 pages. Let's make one thing crystal clear, the stolen *Toike* has nothing at all to do with the real *Toike*, that is why it's called the stolen *Toike*. This year it happened to ride piggyback with the real *Toike* because of a scheduling coincidence. I had nothing to do with it. My own opinion is that on the whole, the insert wasn't very funny and would not have gone into my *Toike* had it been submitted per se. At the same time I do not apologize for it s presence or it s content. If you want to complain about it (and you already have) then go and find out who was responsible for it and write a Varsity expose cover story for all I care. With or without the knowledge of the *Toike* editor, the stolen *Toike* gets published every year, whether anyone likes it or not because it is not funded by the *Toike* budget (more on financial issues later). But isn't it funny, in the insert, some guy (who isn't the *Toike* Editor even though you attributed the comments to me) ranted about "that rag" (the Varsity) which never publishes articles about "the most spirited and contributing faculty". You responded by stating that "The editor [*again, it wasn't me*] should check his facts" and went on to list recent engineering related Varsity articles titled "*U of T student caught with child porn*", "*Student caught in credit card scam*" and "*Engineer Rugby team: vulgar traditions persist*". The whole point of that article was that the Varsity does not seek to promote engineering as a positive and per capita the most participative faculty (geez, even in the snippet I include here that should be obvious). I'm at a loss for words. The best way to describe your callous and obviously superficial treatment of almost everything you criticized is to say that you just don't get it. Get it?

The problem with your negative outlook, as I see it, has nothing to do with your being a female in engineering. In the end people fear and object to what they don't know, don't understand or aren't used to. Everyone's life experiences are uniqueand possibly your's may best be termed as having been 'conservative'. You don't approve of many things that go on in engineering because you rub shoulders with people that behave in a manner you find distasteful. You are exposed to behavior which you dislike and are not habituated to. But who has the right to judge others.

H. L. Mencken wrote: "Puritanism: the haunting fear that someone, somewhere, may be happy."

I could call you a prude for not diving in and enjoying the visceral 'blood and guts' side of the Skule™ experience since there are many female engineers that I personally know who would and have eagerly participated in so called vulgar activities. So why don't you approve. After all, a female is a female is a female. Right? Wrong. I could argue that if I can find an equal number of females who say they had a good Skule™ experience, your viewpoint wouldn't be valid. Obviously that's nonsense, everyone is an individual, regardless of gender. In your article you painted a female vs. male scenario but I'm sure many males share your viewpoint as well (in the end who knows? Who cares!).

I'm sorry if a select number of students have made your engineering experience a negative one but I believe that such an opinion can only be drawn from a stunted (incomplete) Skule™ experience. You wrote off a lot of decent and good people when you asserted that if U of T wants to celebrate great minds, it certainly can't bother to include engineers (would that include yourself?). I can believe that you've run into some scumbags along the way, but how can you generalize that to include most engineering students. I reject your assertion with every fibre of my being. Not everyone is a misogynist, swindler or convicted pornographer. In fact I am convinced that such examples are the exception, not the norm. I personally know many of the people affiliated with EngSoc. I have worked with them through my participation in many of the events and activities held at Skule™. Admittedly some engineers are outwardly a little crass, but, contrary to your statements, I have found that many people I hardly even know will help out at the drop of a hat when asked. I honestly can't think of a single bad experience that I've had with anyone in engineering. I object to your defamatory remarks because they include people you obviously don't know. Who are you? Why don't I know you? Are you slandering the character of the same people I know? I doubt it. If my completely fictitious stories about "my friend" Zarcon, have a paranoid schizophrenic touch (notwithstanding the "blabberings" about BFC activities in the stolen insert, which I didn't write) then might I point out that your whole article seemed that way to me. And the scary part is that you blabber about the real world, not things imagined.

If anyone should get their facts

continued on page 4

HISTORY IS BEING MADE. BE A PART OF IT.

Musically Inclined? Become a recorded music star!

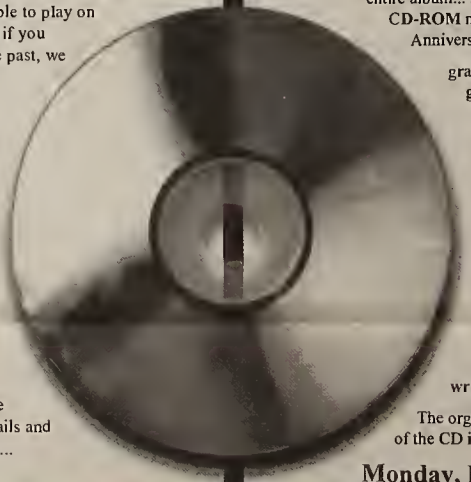
(or reasonable fascimile)

Yes, that's right... the Bnad is making it's sixth **Bnad Album**! Or, to put it another way, the first **Bnad CD**! And we need people to play on it!

We'd like to get as many skilled players as possible to play on the Album. Even if you haven't played much with the bnad in the past, we want you! Be on the album that'll be distributed for the next ten years (or so)!

We're looking for instrument players of all descriptions, as well as the usual White Noise Brigade... bring your own intrument or we can provide one for you. There will, of course, be plenty of food and drink at all rehearsals (yes, there's actually going to be a rehearsal or two) and at the recording... and everyone who's on the album gets a free copy!

The first rehearsal is tentatively set for **Sunday, March 8th at 1 pm**... check the **Bnad Events Board in Eng Soc** for details and the sign-up sheet. And be part of history...



THE COMMEMORATIVE SKULE 125 Multimedia CD-ROM

Of course, the bnad doesn't have enough repetoire to fill an entire album... so about half the CD with be dedicated to a **CD-ROM** multimedia celebration of Skule's 125th Anniversary. That's **250 Megs** or so of...

graphics, text, audio, video, screen savers, games, etc. etc. etc.

...from **all over Skule**... the Bnad, Toike, Cannon, Skule™book, F!rosh Handbook, various competitions, various teams (solar car, Formula SAE, concrete canoe)... basically **anything related to U of T Engineering** can get a section on this CD-ROM!

Of course, we're going to need people to implement this. So if you're interested in **programming, interactive stuff, graphics**, as well as traditional **publishing** and just plain **writing stuff**, we'll need your help!

The organization meeting for the CD-ROM portion of the CD is set for

Monday, March 9 at 5 pm in Eng Soc.

LGMBCD

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COMPACT disc DIGITAL AUDIO

http://lgmb.skule.ca

enhanced CD

LETTERS TO THE EDITOR

Toike Editor Defends his Publication

continued from page 3

straight, it's you. I'm appalled that the editors of the EngSoc funded *Cannon* didn't make sure that you at least based your article on **the truth** (which is out there, if only you cared to put in the effort to find it). After all, if the thrust of the *Cannon* is to be a forum for information, then maybe I should question its EngSnc funded raison d'être when articles (even opinions) which spread misinformation are nonchalantly allowed print space. In the Jan. *Cannon*, Gina, the *Cannon* co-editor, also questioned why the *Toike* should be funded by EngSoc if it publishes articles that do not, according to its own disclaimer, necessarily express the views of the Engineering Society (or all Engineers in general for that matter). Obviously Gina hasn't read the disclaimer in her own *Cannon* (see above). Even if the *Cannon* itself did purport to represent the views of the engineering student body, such a viewpoint would still inherently be based on hypocrisy (hey, we don't live in a perfect world where everyone agrees and inevitably, published opinions are only those of a limited and never fairly representative number of people). But I believe that difference is good, even if every Gina, Tina and Harry don't agree with me. Whether our money should be spent funding the *Toike* and/or the *Cannon* is a decision that each of us must make individually. I personally believe that the *Cannon* is a useful part of the Skule™ experience.

Tina, it saddens me that your solution is to count the days when you will leave engineering. My advice to you is, force yourself to participate in some events you might not initially like. You may find that the people you meet and indeed the activities you take part in are not so bad, once you get used to them. Remember: you get out of life exactly what you put in.

P.S. If it makes any difference, I speak with the wisdom and experience of my 25 years throughout which I have already completed a degree in Arts & Science (yes that makes me a former 'Artsie' – I am proud of my past, and at the same time I don't hesitate to make fun of 'Artsies' or even of myself for that matter; in any case, anyone who takes humor seriously should have their head examined). By the way, I do know some Moslem, Sikh and other non-drinking students that appreciate and enjoy many of the traditions passed down by our mostly white male predecessors – we can't change the past, but I truly believe that anyone who shows Skule™ spirit and cares to participate will, regardless of their gender or ethnic origin, find themselves welcome and accepted and in turn will accept and appreciate many of the time honored traditions which spirited engineers hold dear.

P.P.S. If anyone who thoroughly (unlike Tina) reads the *Toike* and thinks it unfunny (it isn't but then we can't all have a sense of humour) then before complaining, why not contribute! It is in the end **YOUR PAPER!**

Special Section: Eng Soc Elections and Referendum Info

Temporary Special Levy Referendum

A History of the Fund

An incidental fee was first established in 1982 for three years, by a student referendum. The referendum passed with about 80% in favour of the following question: "Do you support the proposed undergraduate incidental fee of $100 to be used for supplies, equipment and teaching assistants?"

In 1985, the referendum was repeated for only one year because the Government of Ontario policy seemed to be heading toward increases in university funding. Not surprisingly, the increases never occurred, so in 1986 the incidental fee was continued for another three years again upon passing a referendum.

In the spring of 1987, the Ontario provincial government passed a bill which outlawed the collection of incidental fees. The purpose of this bill was to stop universities from charging students for computer time and lab costs above their already high tuition fees. Unfortunately, our incidental fee that was requested by the students and NOT imposed by the university was also caught by this legislation and therefore outlawed.

The Engineering Society felt that regardless of this new legislation, engineering students recognized the importance of upgrading their lab facilities and that they would want to continue supporting the faculty with this $100 fee. Since student organizations could establish levies for specific projects which they would designate, and the university may act as a collection agency for the student organization in this regard, the incidental fee was renamed a "voluntary levy fee".

In 1988/89, the Engineering Society, jointly with the Office of the Dean, administered the levy fund. In 1989/90 for the first time, the Engineering Society independently administered the funds.

Did you know...

Alumni donations have increased 34-fold since implementing the Levy Fund by informing alumni of this voluntary undergraduate donation.

The University, through the Provost, Adel Sedra, donates $50 for every $100 you donate.

U of T Eng Soc was the first in Ontario to begin this type of funding; since then Queen's, Western, McMaster and Waterloo have followed in our footsteps.

For every dollar that the university provides, the Faculty raises $1.10 from various sources including research, industry relations and alumni donations. The Faculty is dedicated to providing exceptional undergraduate education and is working hard to ensure this.

Our tuition becomes a part of the greater university budget. The budget is used to pay for such things as maintenance, heat, staff salaries and as a result, only a small portion of this money actually ends up as tangible benefits to undergraduate engineering education. Contrary to this, the Levy Fund goes directly to undergraduate engineering education.

A MESSAGE TO ALL UNDERGRADUATE STUDENTS

from Michael E. Charles, Dean, Faculty of Applied Science and Engineering and Sally Atalla, President, Engineering Society

Voluntary Special Levy

Engineering undergraduates launched the voluntary special levy in 1982. Each year since then, every undergraduate has contributed $100 per year to a special fund used primarily for upgrading the laboratory and computer facilities that you use every day. The specific purposes are recommended by Departmental and Divisional Chairs in collaboration with the Club Chairs and approved by the Engineering Society. Part of the Fund is designated for Special Projects.

The special levy is approved on a periodic basis in a referendum conducted by the Engineering Society. The next referendum is to be held in March 1998.

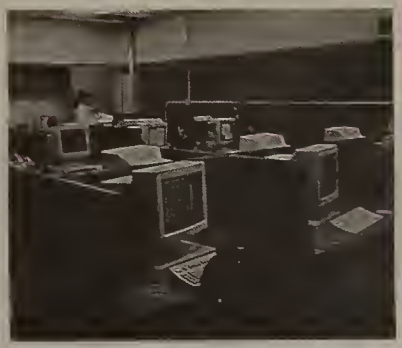
Starting in 1993 - 94 the Provost agreed to match the special levy funds to the extent of $50 for every $100; he has now agreed to continue this match through to the year 2000, provided, of course, the special levy continues.

While tuition fees have risen substantially and will likely continue to do so, the importance of the fund created by the special levy, including the Provost's match, which amounts to close to $400,000 per year cannot be over estimated. This fund is now the main source of improvements and upgrades in laboratory and computer facilities. Without it the quality of our nine undergraduate programs would suffer significantly.

The Faculty can rightly claim pre-eminent status in Canada. This, in part, is a consequence of the calibre and generosity of our students over the past 16 years. We urge you all to continue this fine tradition and vote in favour of the continuation of the special levy. It is the kind of initiative that characterizes the spirit of Skule™ and distinguishes us from the rest of the University.

MALCOLM MCGRATH, ASSISTANT DEAN AND ALUMNI LIAISON WRITES:

Don't Shoot Yourself in the Foot.



ECF: The Levy Fund has provided annually for equipment upgrades.

On March 5th and 6th you will vote on the continuing of the Levy Fund. This fund has had a profound influence far beyond the walls of Skule™, and I want you to know about this.

The fund idea began in 1982. At that time, annual giving from alumni was about $100,000 from 900 donors. Since then, the concept of students giving an extra $100 per year has inspired alumni to the point where, in 1997, we raised $6,194, 819. The donor base now tops 5,000. All this money went towards your education.

You don't have to be a rocket scientist to realize that, if we don't have the Levy Fund as a powerful selling point, we will lose a lot more than just what the fund raises.

Think carefully about this when you vote. It all depends on you.

"...we are grateful for the Society's dedication and commitment to maintaining and improving the quality of undergraduate engineering education offered by this University." B. J. Adams, Chair - Civil Engineering.

"I would like to thank the students who contributed to the levy fund. Without such support, our laboratories would be in dire straits. The Engineering students are to be commended for their commitment to the educational process." A.N. Sinclair, Former Chair - First Year Studies.

"...the Levy Fund will undoubtedly become critical in maintaining and improving our ability to provide high quality undergraduate education in Chemical Engineering." K.A. Woodhouse, Associate Chair - Chemical Engineering.

"The Department appreciates the initiative the undergraduate students have taken in contributing to our laboratories..." Adel Sedra, Former Chair - Electrical Engineering.

"I would like to sincerely thank you for administering the Student Levy Funds which are essential in developing a first class undergraduate program in Industrial Engineering." A.K.S. Jardine, Former Chair - Industrial Engineering.

"...I express our deep appreciation to the Undergraduate students for the provision of Levy Funds which enable us to equip undergraduate laboratories in a way which otherwise would be impossible." A. McLean, Chair-MMS.

"Thank you and the Engineering Society for the Department's share of the Levy Fund, which is very much appreciated and indeed absolutely necessary to the ongoing development of our undergraduate laboratories." J.W. Smith, Chair, Chemical Engineering

"There is no doubt that the Levy Fund is invaluable in assisting us to ensure that we have a first class program in place for our undergraduate students." A. K. S. Jardine, Former Chair - Industrial Engineering.

Engineering Students' Temporary Special Levy Proposed Agreement

On behalf of all full-time students registered in the Faculty of Applied Science and Engineering, the University of Toronto Engineering Society proposes that a temporary Special Levy be levied upon full-time undergraduate studeuts registered in the Faculty of Applied Science, subject to the following eight provisions:

Provision 1

The amount of the temporary special levy sball be $100.00

Provision 2

a) The term of the temporary special levy sball be a maximum of two years

b) These years shall be the academic school years of 1998-1999 and 1999-2000.

Provision 3

The special levy shall be reviewed by the Engineering Society Council in the spring of 1999 and again in the spring of 2000. Review shall consist of a presentation to the Engineering Society Council of the expenditures which have occurred in the academic year.

Provision 4

Each department shall, with advice from their students, request expenditures from the Special Levy fund through the Engineering Society. Authorization for expenditure shall be made by a special committee of the Engineering Society with advice from the Dean of the Faculty of Applied Science and Engineering. The committee shall include at least the President, the VP Finance, and the departmental club chairs.

Provision 5

The temporary special levy shall cease to exist after the 1999-2000 school year unless the levy is continued by an agreement of full-time undergraduate students by referendum.

Provision 6

The temporary special levy shall be used to purchase equipment which will enhance the quality of undergraduate education in the Faculty of Applied Science and Engineering.

Provision 7

The temporary special levy shall be collected by the University of Toronto with all regular fees for the 1998-99 and 1999-2000 school years, and shall be passed to the Engineering Society in a separate bank account.

Provision 8

The nature and implementation of this agreement is absolutely contingent upon all of the preceding provisions.

Engineering Society Elections 1998-99: Candidates

President

Paul Andersen
COMP 9T9

Over the three years that I have been active in the society, I have seen EngSoc become engulfed in a sea of red tape. It seems that EngSoc is run as if it were a big government with all the bureaucracy that comes with that.

EngSoc is supposed to be for the students; yet most students don't know what is going on. This hampers it's ability to function. Most students feel that the Class Rep system, as a way to effectively communicate with the students, has fallen apart. Much of this is due to the way the faculty has, in the past few years, re-organized the programs. It's time to look for a new way to keep in touch with the students.

I've also found that simple things, such as fixing the free phone when it's broken, never seem to happen until the committee, which won't meet for four weeks, discusses how this can be done. Redundant meetings where agenda topics include news that is three weeks old must be brought under control. All this red tape inhibits our ability to do what we are here for, to serve the student body while still PARTYING 'til we drop.

President

Drago Banovic
KOMP 9T8+V

Greetings, my name is Drago Banovic and I am running for the position of Engineering Society President. During my last four years, I have been a part of all of the Student Councils and have witnessed many different leadership styles. Seeing what the positive and negative aspect of each administration was, I believe that I can combine all the constructive contributions.

My involvement with Engineeering Society has been extensive, and I have enjoyed working in numerous ways to improve the Society for the students. The official positions that I have held in the Engineering Society include Blue & Gold Committee Chair 9T6, Vice-President Finance 9T7 and Chief Attiliator 9T8. In each I have displayed unmatched leadership and initiative. Other contributions include: working for Suds, conducting student talks for high school students during Skule™ Daze, working in the Engineering Stores this past year - implimenting first year textbook sales, donating my time during the last three summers to spearhead the renovations in the Engineering Society and being an Orientation leader for the past three years.

Platform:

1. The Engineering Society must ensure that the students receive a fair and competitive education. After all, that is why we are here.

2a. Maintain social activities and to have fun. Skule™ would get boring and stressful if all we did was work.

b. Athletics. Encourage intramural/varsity sports because health and team camaraderie is very rewarding.

3. Professional Development. To help show students that the workplace is considerably different then university.

President

Karen Virk
ELEC 9T9

Hello everyone, my name is Karen Virk and I am running for President of the Engineering Society. I am a third year in electrical engineering. I'm sure the main questions you have are why am I running for president, and why should you vote for me?

To answer the first, I know I could do a good job and I would really enjoy doing it. I have seen the Engineering Society over the years and I believe that it is a very important organization and I will do my best to improve it.

As to why you should vote for me, if I am elected, I will focus on changing the Society. The face of our student body has changed and the Engineering Society must also change to best serve all the members. I would like to focus on increasing services and communicating to the students as best we can. This year's council decided that we needed restructuring, and if we continue we can change the society much faster.

In addition, I have had a lot of experience with the Engineering Society as VP External, assistant editor of the Cannon, cast and promotions for Skule™ Nite, an orientation, Skule™ Daze and Frosh-For-A-Day leader, and have helped establish the new Engineering Career Office.

Anyways, if you have any questions or want to grill me on where I stand, you can email me at *virk@ecf*. Whether or not you vote for me, I encourage you all to exercise your right to vote!

Vice President External

Mandy Goundry
IND 0T0

Canon Readers!

Few of you know me, so I'll give you all a quick introduction: I'm an Indy 0T0 who seems reserved, by once you strike up a conversation with me, you'll realize I'm pretty friendly - and that I talk too fast. I'm an Aquarius, born in the year of the snake, and I don't know the significance of either of those facts. I've noticed that people are much more obliging when you smile, so I do it often!

Why would I want to be VP-External? To get to know more engineers - both at UofT and other schools across the country. By becoming VPX, I'll get the opportunity to communicate with representatives from various committees. Also, I'll provide you with information on events such as OEC and NEW, and represent you at conferences like ESSCO and CCES, which will give me interesting things to talk to you about - even if you find my personal stories boring.

Why would I be a good VPX?

- •EXPERIENCE! I held a similar position on SAC for 2 years ('cause I loved it so!)
- •I'm on the CCES'99 committee, so I've got the inside scoop.
- •I speak well, with others and during presentations. Maybe it's my deep, raspy voice...
- •I love being involved, and I'll gladly share that love with all of you!
- •Just tell me whatcha want (whatcha really really want) from a VPX, I'll try to deliver!

Mandy Goundry

a.k.a. "Speedy" ('cause I'm a somebody!)

Vice President External

Rono Sinha
COMP 9T8+PEY

No writeup received

Vice President Activities

Struan Vaz
COMP 0T0

Hello, my name is Struan Vaz and I am running for the position of Vice President of Activities for the Engineering Society. I've been immersed in the social aspects of Skule™ for the past two years having actively participated in many events such as F!rosh Week, Godiva Week, Skule™ Daze, Engineering Student Societies of Ontario Olympics, LGMB, the Mr. Blue and Gold Pageant and the First Year Committee (1996-1997). I have all the proper elements to make an excellent VP Activities. These being Oxygen, Hydrogen and Carbon. I will work very hard to make next year's F!rosh Week Rippin'.

ACCLAIMED

Notice Of Elections And Referendum

Referendum for Temporary Special Levy and Engineering Society Elections for the 1998-1999 term of office for the following Engineering Society positions will take place on:

Thursday, March 5th, 1998 and
Friday, March 6th, 1998

President
Vice-President: External
Vice-President: Internal

Positions of Vice-President: Finance and Vice-President: Activities have been acclaimed.

Polling Station open 10 a.m. - 5 p.m. Thursday and 10 a.m. - 3 p.m. Friday in Sandford Fleming Atrium

Students will be asked: "Do you support the continued collection of $100 per year, per student fee, for the next two years to be used as a special fund for improvements to your undergraduate education which will be controlled by the Engineering Society with advice from the Dean of the Faculty of Applied Science under the conditions outlined in the Election Issue of the Cannon?

Temporary Special Levy: Where Your Money Is Now

First Year Fund

1996/97	**$101,500.00**
Chemical	$ 28,000.00
Enhancement of First Year Chemistry Lab	
WB 216 -Replacement of 4 PC's in Undergraduate Computer Room	
Engineering Science	$ 10,000.00
Computer Lab - Purchase of PC=s and peripherals	
MMS	$ 25,000.00
Equipment for the new first year materials course.	
Aerospace	$ 10,000.00
Design Course	
Computer systems, power supplies, multimeters, etc	
ECE	$ 28,500.00
Upgrade to computer systems	
1997/96	**$ 98,000.00**
ECF - Upgrade & Departmental requests	
All first year distribution to be determined	

Special Projects

1997/98	**$ 27,900.00**
set up of Engineering Career Office	
1996/97	**$ 12,000.00**
Cafeteria & Atrium renovations	
1993/94	**$ 26,500.00**
Engineering Library Lighting upgrade.	
1987	**$ 250,000.00**
ECF Upgrade	

Regular Fund

1997/98

CIVIL	$ 35,824.00
Undergraduate PC Lab	$ 22,674.00
Materials Eng. Lab	$ 4,500.00
Water distillation unit	
Structural Engineering	$ 3,500.00
Mechanics models	
Environmental Eng. Lab	$ 4,500.00
pH meters	
CIV235S Drafting Kit compensation to Stores	$ 650.00
GEO & Mining	$ 10,500.00
Pentium II computer	$ 5,000.00
Flat Bed Colour Scanner	$ 1,000.00
Computer tables and chairs(4)	$ 2,800.00
Geology Field Trip funding	$ 1,500.00
MECH/INDY	$ 74,629.00
MECH	
High Tech LCD panel	$ 3,000.00
Thermodynamics (MIE310F) experiment	$ 15,000.00
Manufacturing Eng. (MIE321S) mold base	$ 1,715.00
VHS tapes on fluid mechanics	$ 1,075.00
Undergrad Common Room - fooz ball table	$ 1,000.00
Fluids Lab - chair replacement	$ 4,250.00
Control Sys I (MIE404F) thermal process units	$ 7,853.00
Pentium Laptop for thesis presentations	$ 5,350.00
Formula SAE dynamometer & tools	$ 5,000.00
IND	
Pentium CPU & RAM	$ 1,196.00
RS108 security systems for monitors	$ 100.00
RELCODE software (MIE469S)	$ 695.00
Minitab licence renewal	$ 2,295.00
Security bars for Common Room	$ 1,700.00
Zip drive for Satellite Room	$ 200.00
Cognitive Ergonomics upgrade student job	$ 3,000.00
5 Pentiums for Satellite Room	$ 10,000.00
Visio Software -flow chart program	$ 1,600.00
Used Fooz Ball table for Common Room	$ 1,000.00
Common Room furnishings	$ 1,500.00
Lockers for undergraduate use	$ 5,400 00
Engineering Science	$ 13,500.00
Engineering Science (all options except biomed)	$ 10,500.00
Printer upgrade, software purchase & new computers	
Bio-Medical Engineering	$ 3,000.00
CHEM	$ 36,995.00
Unit Operations Lab	$ 15,000.00
Computer software & hardware upgrades, pump & accessories, Solids conveyor, dead weight tester	
Organic Chemistry Lab	$ 8,200.00
Optifix reagent dispensing pumps, Gas cell & filling apparatus, Xenon lamp for fluorimeter, micropipettes, Teaching software	
Computer Lab(WB216)	$ 13,795.00
RAM upgrade x 19, Windows NT x 19, Windows Office x 19	
Upgrade to Hysis, miscellaneous software.	
ECE	$ 81,840.00
Power Conversion Lab	
Switch mode power supply	$ 2,000.00
16 Multimeters true rms to 20A	$ 8,000.00
Optical Networks Lab	
Prism-coupled Slab waeguide parts	$ 6,000.00
Electronics Lab	
10 Function generators (not 12)	$ 33,000.00
PC Lab	
Replace 10 workstations	$ 20,000.00
Microwaves Lab	
Design and construction of PC Board	$ 5,000.00
Design Centre	
networking of existing computers	$ 7,500.00
MMS	$ 20,914.00
Two furnaces for undergraduate labs	$ 6,000.00
Computer laboratory hardware	$ 14,914.00
Aerospace	$ 12,678.00
Instrumentation for Fluids Stations	$9,800.00
20 32MB SIMMs	$2,878.00

Due to insufficient space, fund distribution statistics for 1996/97 are not being printed in the *Cannon*. Please see the pamphlet entitled "Temporary Special Levy Fund" which may be obtained in the Engineering Society Office for the complete breakdown.

Vice President Finance

Gord Bennett
IND 9T8+PEY

It is with great pleasure that I announce my candidacy for the position of VP Finance in the upcoming Engineering Society elections. If you don't recognize me, that is because I am currently placed at Celestica Inc. on my PEY term. If you do recognize me, it is probably because of my participation various spirit events, or know of my involvement in the Engineering Athletic Association.

As President of the Engineering Athletic Association, 1997, I had the opportunity to manage finances and events associated with extra curricular sports. Student athletic fees were used to finance team jerseys and equipment, support administrative fees of tournaments and provide bond for teams to play in intramurals. In addition to the regular expenses, the athletics council allocated funds for T-shirts for all athletes, and sponsored teams representing Skule in Rugby, Dragon Boat racing and Volleyball. The remainder of the fees were allocated towards awarding our athletes at the 'S Dance', the annual awards ceremony/ dinner/dance, occurring in early April. Last year, the Warren G. Miedema memorial trophy was purcbased and presented to the Most Valuable player on the Waterpolo team.

If elected, you can expect that I will display the same consideration in the allocation of your student fees and will make it my priority to ensure positive distribution of the student levy. In making these decisions I will, to the best of my ability, act with the best interests of Skule Engineers in mind.

Thank you for your consideration,
Gord J. Bennett
IND9T8+PEY

ACCLAIMED

Vice President Internal

Anna Edwards
COMP 9T9+1

No writeup received

Vice President Internal

Heather White
GEO 9T9

It is the responsibility of the VP-Internal to oversee the operation of the Engineering Society and to make sure it works. I intend to make sure it works for you.

One of my priorities will be to make the Engineering Society offices more accessable and welcoming. How, you ask? Decorations! I hope to banish the squalor that is our current EngSoc, and usher in a new era of comfort - free of garbage and odour (especially the dead rat stench whicb is all too common these days), where we all can be free from those who see fit to lick the pop machine coin return.

I have a vision for the future of EngSoc. A kinder gentler EngSoc. A happy place. But I need your vote to make that happen. A vote for Heather is a vote for me.

Candidate profiles are listed under each position in alphabetical order by surname. Photos and statements do not appear if they were not submitted by the deadline.

Skule™ News

The VPX-Philes, er, Files

by Koren Virk ELEC 9T9

Well it's back to the wonderful world of eternal studying and nutritional caffeine supplements. Over the past couple of weeks the Engineering Society has been busy trying to keep up with the chaos of the events that will soon be going on. On the extemal front, there will be a conference at the Royal Military College in Kingston during March 20-22 where ESSCO (Engineering Societies Student Councils of Ontario) and COFIQ (the Quebec version of ESSCO) will get together to discuss pertinent issues. This is the first time we've had a conference like this and we should be able to get a good exchange of information.

Aside from that, there was a review of the new Engineering Career Office and overall, the students were very pleased with its performance to date. Since October, when Seema started, 550 companies have been called and over 500 packages have been sent out. The outcome of the review was presented at the last full council meeting with the class reps. A report will soon be available about the progress of the office.

If you have any feedback on the office or suggestions on how to better meet the needs of the students you can email Seema at *seema@ecf.*

Anyways, that's about it for now. Good luck on midterms and remember, only two more months!

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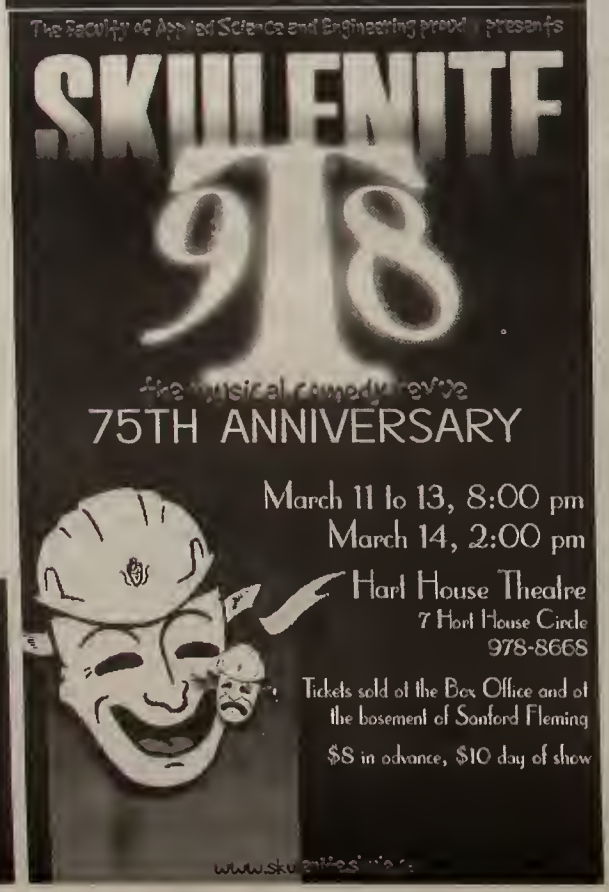

The Faculty of Applied Science and Engineering proudly presents
SKULENITE
98
the musical comedy revue
75TH ANNIVERSARY
March 11 to 13, 8:00 pm
March 14, 2:00 pm
Hart House Theatre
7 Hart House Circle
978-8668
Tickets sold at the Box Office and at the basement of Sanford Fleming
$8 in advance, $10 day of show

Students discuss ideas for the hot topics session at the AWMA conference.

Air and Waste Management Association

Heavy Debate At the AWMA Conference

by Christoph Kupferle Executive of UofT AWMA

The 2nd annual Student Conference 1998, hosted by the UofT Student Chapter of the Air and Waste Management Association (AWMA), opened on Sat. Jan 31.

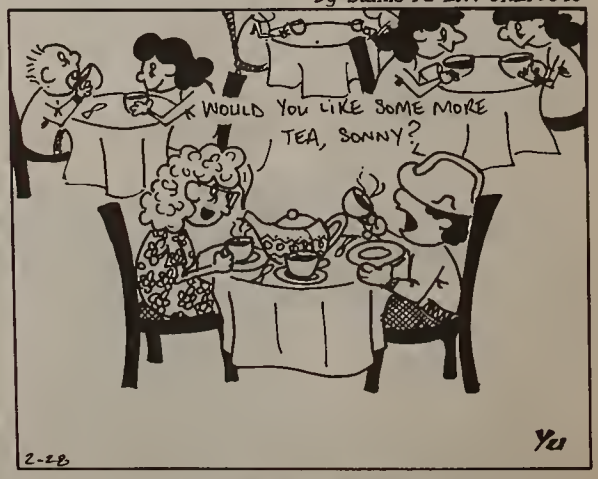
After many hours of planning, calling and organizing, the first delegates arrived at the University of Toronto campus in downtown Toronto. Most of the 32 delegates were from the University of Toronto, except for four delegates who were from the Guelph Student Chapter, who organized the first Student Conference in 1997. The theme of this year's conference was "Identifying Today's Air and Waste Management Needs." The objective of the conference was to expose students to a wide range of issues related to air and waste and encourage the development and sharing of solutions to environmental problems. From late morning till the afternoon on Saturday, professionals presented an environmentally related topic and shared their experiences in a 45 minute session. Topics included, Remediation Technologies for Fractured Rock Site, regulatory reform Peel Region Long Term Waste Management Strategies, Air Emissions Compliance Program, Turning Waste and Compost into Valuable Resources, and State of the Art Landfill Design. The banquet that followed was formally opened by Peter Burrows, President of the AWMA Ontario Section.

The program continued on Sunday morning. The delegates participated in a hot topic discussion where we tried to identify the grass root problems of environmental issues affecting our generation. The delegates were split into two groups to each come up with a list of the five most pressing environmental problems and five ways of improving the environment. After a half hour, everyone met again and presented their findings in an effort to decide on which five were the most pressing of all. This turned out to be quite difficult and so we had to give up after a lengthy discussion. It showed how hard it is for people to pull in the same direction where values and beliefs can greatly differ. The conference concluded with Ray Clement, who addressed future job prospectives in the environmental field and job search after graduation. Overall, the conference was a full success and everyone left with a lot new ideas and more insight in the environmental field.

We, the organizers, would like to thank all the people who put the time and effort in to make the conference happen: all the professionals who presented sessions, the delegates for participating, and our sponsors for their financial support. We look forward to attending the next Student Conference in 1999, organized by students for students.

Stanland

by Stanis Yu ENV CHEM 9T9



Our confused F!rosh often wondered why the Faculty forced him to enroll in the "Tea-Program"

NATIONAL ENGINEERING WEEK

Something NEW: National Engineering Week

by Mark Ebden ENG SCI OTO

The first week of March is National Engineering Week! This is an annual celebration designed to increase awareness of the importance of engineering in our daily lives, and encourage young people to consider engineering as their career of choice.

Now in its seventh year, National Engineering Week is supported by major corporations, engineering societies, universities, government agencies and professional associations representing 200,000 professional engineers, engineering technicians and technologists across the country.

[On this page] you'll find a schedule of the events that will occur on the U of T campus, as well as schedules for the off-campus N.E.W. events, mostly organized by the Ontario Science Centre and the PEO (Professional Engineers of Ontario).

There are no admission costs for U of T events, and most of them offer free refreshments, too! You can also win prizes at the competitions. The Science Centre events demand the regular admission fee, but they should be as good as U of T's events. So drop by one of the exhibitions, games, or other events in the atrium or elsewhere. It's a free glance at professional engineering, and a lot of fun too.

E-mail me, *ebdenm@ecf.utoronto.ca*, if you have questions.

Schedule of Campus Events

Monday

Engineering Societies Exhibition
12-2 pm, atrium
Booths describe which organizations (e.g. IEEE, PEO, ASME, etc.) you can join as a professional — and now!

First Young Engineers Forum
12 & 1 pm, MC254
"Opportunities in Emerging Technologies"
Free refreshments.

Tuesday

Engineering Debates
12-1, GB119
Funny topics, impromptu. Prizes awarded and free refreshments.

Engineering Games
12-2, atrium
Use your ingenuity to have fun and even win prizes.

Second Young Engineers Forum
12 & 1pm, MC254
"Opportunities in International Employment" and "Staying Competitive in the Employment Market"
Free refreshments.

MBA talk & tour
6:30 pm, Rotman Centre
Meet over there (105 St. George Street)

Wednesday

"Engineers Solve Problems" display
12-2, atrium
Historical, interesting solutions to famous problems

Third Young Engineers Forum
12 & 1 pm, RS211
"Managing Interpersonal Relations: A Stop in Your Career Development"
Free refreshments

Fermi Competition
12-2, SF1013
Estimation competition — e.g. "How many atoms does Canada own?" Prizes awarded and free refreshments.

Thursday

Engineering Contests Exhibition
12-2 pm, atrium
Booths describe which contests (local, provincial, and national) we can enter

Fourth Young Engineers Forum
12 & 1pm, MC252
"The MBA Option" and "Lifelong Learning: The Key to Success in Today's and Tomorrow's Workplace"
Free refreshments

Women in Engineering Session
Koffler Institute for Pharmacy Management, Room 213
(Not the Koffler Student Services Centre!)
569 Spadina Avenue 5-7 pm
Free refreshments

Law School speaker
1-2pm, GB 119
A talk on how engineers can become lawyers. Free refreshments.

Friday

Tour of Hugh MacMillan
Leave at 1:30 pm in atrium
Biomedical engineering

Boat Races
5ish in SUDS
Drinking games: free for competition winners, small fee for others

PEY talk
12-1 pm GB 244
Free refreshments.

Ontario Science Centre Events

Official Opening of Engineering Week in Ontario
Saturday, February 28, 2 p.m.

Jim Wilson, Ontario's Minister of Energy, Science and Technology will be on hand at the Ontario Science Centre on Saturday, February 28. He will open a special exhibition of engineering innovation and officially launch National Engineering Week (NEW) across the province.

Engineering for a Better Future Exhibition
Saturday, February 28 to Sunday March 8, 10 a.m. to 5 p.m.

Check out the snazzy, lightweight, natural gas-powered sports car. Look at the way computers and other devices enhance our senses and visual memory thorugh wearable technology. Marvel at the achievements of university engineering students. These are just some examples of what you'll find at this showcase of engineering innovation.

Engineering Innovation Forum on Virtual Reality
Wednesday, March 4, 6 p.m. to 10:30 p.m.

Learn about the state of the art and science of virtual reality - applications to the workplace, education and training, and entertainment. Organized by Greater Toronto chapters of PEO and OACETT. Forum displays and Engineering for a Better Future Exhibition open 6 p.m. to 10:30 p.m. Presentations 7p.m. to 9 p.m. Free admission, but space is limited so please let us know you're coming. Call Rina Kulathinal, P.Eng. at 905882-4211, ext. 466 or Andre Rudnicky, P.Eng. at 416 235-5403.

Educating the Innovator Conference
Thursday, March 5, 8:30 a.m. to 4 p.m.

Take part in a day-long conference to promote technical skills in the education system, featuring presentations on rapid prototyping and displays. Organized by the Toronto chapter of the Society of Manufacturing Engineers. Participation fee applies. To register, call Pete Kondoff at 416 494-8736.

A Guided Tour of the Near Future - Saturday, March 7 & Sunday March 8, 2 p.m.

Let the Ontario Centres of Excellence show you the near future when science, technology and engineering will change the way we live and work. Sponsored by GreyInteractive, this multi-media presentation is full of surprises. Call Sharon Airhart, Ontario Centres of Excellence at 416 767-3389.

Off Campus Events

Fuzzy Logic: What Every Engineer Should Know
Thursday, March 5, 12 noon - 2:00 p.m.
Burhan Turksen, P.Eng. of the University of Toronto and Mike Dudzic, P.Eng. of Dofasco will discuss the theory and practice of fuzzy logic. Casa Loma, Toronto. Admission fee $10. Call John Nicholson, P.Eng. at 416 865-7991.

Computers & Engineering: Hands-on Demonstration and Display
Saturday, March 7, 12 noon to 4 p.m.
Engineering computer games and puzzles. Gerrard Square, 1000 Gerrard Street East, Toronto. Free admission. Call John Nicholson, P.Eng. at 416 865-7991.

High Dam Building: South East Antolia Hydroelectric Project (GAP) in Turkey
Saturday, March 7, 6:30 p.m. to 8:30 p.m.
Free admission. Bring your friends and colleagues to 10th floor, 99 Harbour Square (Queen's Quay), Toronto. Parking is limited so take the TTC - take the subway to Union Station and the LRT from Union to Queen's Quay. Refreshments at 6:30 p.m. Call Nafiz Yucel, P.Eng. at 416 203-1701 or John Nicholson, P.Eng. at 416 865-7991.

National Engineering Week Media Coverage

Toronto Star Special Section on Engineering - Thursday, February 26

To kick off National Engineering Week, an eight-page special section was published in the Toronto Star. The section included stories about the future of engineering, career prospects and the latests innovations made by engineers.

Career Centre

Looking For A Summer Job?

by Binh Ta COMP 9T9

On Tuesday, February 9, 1998, the Engineering Career Office organized the "Engineering Summer Job Search Seminar" held in MC102. The speakers were Glen Matadeen and Bilijanna Carter from the Career Centre, Milan Vyas from Procter and Gamble and Jean-Rene (JR) Geoffrion from IBM Canada. Although the focus of the seminar was on summer job searching techniques, the tips provided could be applied to any job search process.

An Active Approach To Job Searching

Glen started off his presentation by discussing two different job search approaches, passive and active. A passive job search would involve looking for positions in newspaper ads, in postings or through agencies. However, this is not a good approach because only about 20% of all the available jobs are ever advertised and thus can't be found in a passive job search. Taking a more active approach means being aggressive and looking for work by networking, through associations, and directories. In fact, the Career Centre has a student employment network guide which lists many companies that you can contact.

Next, Glen talked about three important things you should know when looking for a summer job. First, you have to know what you have to offer. Then you have to know the needs of an employer. Lastly, you have to know how to promote yourself.

To answer the question of what you have to offer, you have to assess you expectations — ask yourself what type of employment you want. What industries interest you? What kind of work environment do you want to be in? What are your financial needs and/or goals? When you do find a job you want, you should ask yourself how the job fits into your overall career objectives.

How do you find out the needs of an employer? You can review employer directories and see the kind of positions they advertise. Look for trends in recent postings. Is there a specific sought after skill? Newspapers can provide articles and profiles of companies and maybe a story will give you hints on how a company is going to hire in the future.

To find out how to promote yourself, you need to practice. This is where the Career Centre and its resources can help you. You can arrange to have someone critique your resumé or conduct a mock interview with you. They also host many clinics throughout the year.

The key to answering these three questions involves preparation. This means you have to read, review, and research. Sources of information is all around us, from people, to the Career Centre, the Internet, newspapers and magazines, associations and organizations, journals and trade publications.

The key points of Bilijanna's brief presentation included the re-emphasizing of the fact that many positions are unadvertised. To find out about them, the Career Centre has a contact list of many companies and also a record of previous postings. You have to create your own opportunities and find out which companies need an employee like you. Her advice when looking for summer jobs is to start in January. That is when the summer postings start coming in. You can even start looking as early as November. Lastly, she pointed out many of the skills that are in demand by many employers. These include communication skills, computer and/or CAD experience and familiarity with the Internet (designing web pages, research).

Researching Your Future

Milan made the point of reminding us that we own our future. We have to develop a vision and a plan of that future. This requires doing some research into the areas you are interested in. You should also know your strengths and weaknesses intimately. Actually, Milan likes to interpret weaknesses as an opportunity for improvement. You should make choices that are consistent with your vision and plan. It's not just about getting any job. It's about getting jobs that help shape your career and meet your goals. Because you control you future, you shouldn't wait for opportunities to just "fall into your lap". You should create your own opportunities. Be open to different options and take charge. Do some networking because some jobs might get pitched to you in that manner. Never sell yourself short,

Writing A Good Resumé

Given that an employer will spend an average of 7 seconds evaluating a resume, how do you get their attention? JR offers some useful advice on writing a good resume. But first, he points out that a resume is only a tool that one uses to get an interview. It's a way to start off the process because employers get an idea of who you are, before they decide to give you an interview. A resume should be readable and legible with lots of white spaces and headings. Have you checked spelling and grammar? Does the format of the resume stand out? Is your resume short, concise and to the point? What is your career objective? JR suggests keeping it to one page and at most two. But what should you put on your resume, you ask? First you should assess your skills so as to decide which ones belong on the resume. Then you should list your academic record, your extra-curricular activities, any projects you were involved in, you initiatives and maybe personal challenges you've faced. Of course, these are only suggestions and may not apply to everybody.

What JR is trying to point out is that you have to advertise your "competitive advantage" to the employer. And marks aren't the most important thing an employer will look at. You have to show them what makes you different by separating yourself from other applicants. Maybe you know many different languages or have other special skills. When it comes to experiences (of any kind), JR emphasizes that it's not just good enough to list them on your resumé. He doesn't care if you were the president of such and such a club or you participated in a such and such a conference. He wants you to show him what skills you've gained because of those experiences. Make it tangible by attaching skills to your experiences. Make sure you've listed your responsibilities and/or accomplishments. Make them relevant because you can't expect a person to make the connection between your skills and experiences.

Do Your Research!

When looking for a job, JR re-emphasizes the need to do your research. You should know where the industry you're interested in is heading and what the current issues it faces are. This type of information can be easily found on the Internet, newspapers, journals, industry reports, stock prices, press releases, and annual financial reports (of course, the list can go on and on). By doing this, you can find out who the key players are in an industry and this may help you decide who you would like to work with and why. The idea is that you are trying to match you skills with the needs of a company or industry because in an interview, you want to tie you skills back to the position you are applying for. This way you can show the interviewer how the company benefits by hiring you instead of someone else.

To prepare for an interview, JR suggests that you should list all the questions someone might ask you and prepare answers for them. Then you should get lots of practice. You should also prepare questions for the interviewer about the company. This is a way for you to demonstrate your knowledge and interest of the company and/or industry.

Career Centre Events

Note: All sessions are being held at the Career Center Seminar Room

Tuesday the 3rd
Looking for Summer Work? Seminar 10:00 a.m. – 12:00 p.m.
Recent Graduates Employment Orientation 6:00 p.m.

Wednesday the 4th
How to Identify Work Opportunities Workshop 10:00 a.m. – 1:00 p.m.
Graduating Students Employment Orientation 2:00 p.m.

Thursday the 5th
Recent Graduates Employment Orientation 11:00 a.m.
Discovering Your Skills and Options Workshop 1:00 p.m. – 4:00 p.m.

Friday the 6th
Learn How to Approach Employers Worskhop 10:00 a.m. – 1:00 p.m.

Monday the 9th
Recent Graduates Employment Orientation 11:00 a.m., Career Centre Seminar Room

Tuesday the 10th
Résumé and Covering Letter Seminar 5:30 p.m. – 8:00 p.m.

Wednesday the 11th
Career Focus '98 All day student career conference: pre-register at Career Centre

Thursday the 12th
Interview Techniques Workshop 1:00 p.m. – 4:00 p.m.

Friday the 13th
Graduating Students Employment Orientation 11:00 a.m.
Recent Graduates Employment Orientation 3:00 p.m.

Saturday the 14th
Learn How to Approach Employers Worskhop 10:00 a.m. – 1:00 p.m.

Tuesday the 17
How to Identify Work Opportunities Workshop 1:00 p.m. – 4:00 p.m.

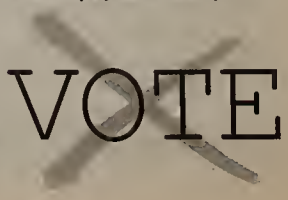
Wednesday the 18th
Discovering Your Skills and Options Workshop 10:00 a.m. – 1:00 p.m.
Recent Graduates Employment Orientation 2:00 p.m.

Thursday the 19th
Interview Techniques Workshop 10:00 a.m. – 1:00 p.m.

Friday the 20th
Recent Graduates Employment Orientation 11:00 a.m.
Résumé and Covering Letter Seminar 1:00 p.m. – 3:30 p.m.

Monday the 23rd
Recent Graduates Employment Orientation 11:00 a.m.
Learn How to Approach Employers Worskhop 2:30 p.m. – 5:30 p.m.

Tuesday the 24th
Interview Techniques Workshop 5:30 p.m. – 8:00 p.m.



Skule™ News

The Most Wired Man On Campus

continued from page 1

D.L.: What led you into the field of computer/electrieal engineering in general?
S.M. Well, personal hobby... I've been building circuits since before kindergarten. I liked that sort of thing. When I was 5 years old, I wanted to be the phone repair man since I saw he had all the wire he wanted, etc. Phones were one of the things that caught my attention & interest.
D.L.: Are you currently teaching any courses? Do you plan to teach any courses next year or in the near future?
S.M.: I'm designing my own course, on humanistic intelligence, wearcomp, etc. Refer to *http://wearcomp.org/wearcompdef.html* and *http://wearcomp.org/research.html* as a basis...

For those who are not familiar with the term, humanistic intelligence is the term Professor Mann uses to refer to the synergistic combination of a computer and a human to create a new entity. Essentially, humanistic intelligence is the blending of the strengths of humans with the advantages of computers.

D.L.: What made you choose U of T as a place to relocate from MIT?
S.M. I wanted to return to my home area. I've been away since '91, and thought it good to come back - my friends, relatives, etc. live here. Also, these days doesn't matter where one lives, so long as one has fast "net connection". What I'm doing cuts across all facets of daily life, so I considered New York as a good place too, but seemed like not a very nice place to live. When I visited, I was kept awake by fighting in the hallways in the hotel. It seemed like not a very peaceful place, but it is multicultural, and accepting of new ideas. My recollection of Toronto from my childhood was that it was a place where I felt accepted, or at least not out of place, wearing various embodiments of my wearcomp invention or the like. Toronto is a very tolerant place, and also very cosmopolitan, and accepting of "thinking outside the box" like New York is, but it's a better place to live than New York.
D.L.: You consider your technology as a tool for the defense of the common man against the powers of "Big Brother." Do you fear that your work could be misused in ways or turned against that original purpose by the powers that be?
S.M. Yes, that was one of the concerns I expressed in my Communications of the ACM (CACM) article, @ARTICLE{manncacm, author = "Mann, Steve", title = "Smart Clothing: The shift to wearable computing", journal = "Communications of the {ACM}", year = 1996, month = "August", vol = "39,8"}
D.L. Five years ago, it was said that the cellular phone would remain the toy of the rich business man, yet today they are an integral part of our culture. The same can be said about modems. Do you foresee your technology becoming as prevalent for the business man? For the average person? Have you experienced interest from industry sources?
S.M. Yes, I see it being something for the ordinary person, more like the Sony Walkman is. Yes, there is lots of industry interest. Bell seems interested. See http://wearcomp.org/weartel.html

D.L. What direction is your research currently proceeding in? You stated that you were looking for potential students, research associates, etc. What kind of skills/interests would you be looking for in those type of people? What kind of projects/work would they get?
S.M. I'm looking for people who can get things to work. I've already set forth a vision for where I want this work to go, but am finding that it is hard to do everything myself, from designing the rigs (wearcomps) to building them, to testing them, to programming them, and finally to do scientific research/studies... so there's a lot of different ways in which others could help by joining the team. *http://wearcomp.org/research.html* is a great place for anyone interested to look. I need people to assist in maintaining the world's first wearcomp www page (*http://wearcomp.org*), to assist in getting Linux running properly on WearComp units, to assist in developing applications in the GIMP software package, to help build the world's smallest colour television into an ordinary pair of wire frame glasses, to design fonts that show up well on such a TV set, to help design small antennas that will work well in the frames of the glasses, etc...

Interestingly enough, Professor Mann refers to Windows 95, his previous development platform, as a "virus." In fact, he humorously refers to anything he does not have source code for as a "virus."

D.L. You mentioned that some of your pictures have been exhibited as art works in galleries. Did you find this surprising? interesting? Is a great deal of your work being displayed?
S.M. As Harold "Doc" Edgerton once said: "if they want to call it art, that's great". My feeling is that it is time to break down the barrier that exists between art, science, and technology. There is no reason why someone cannot be an artist & scientist & inventor. Art and science share a common desire for truth, art being the inner subjective truth. and science being the outer objective truth. Engineering is about getting things to work, and it is necessary for both art and science. Engineering is the "glue" that holds art and science together. The engineer is an inventor, and an inventor is as much a creator as is the artist or scientist. My lightspace renderings (images I made using my wearcomp invention) were often exhibited in art galleries in the Hamilton and Toronto area during the early to mid 1980s. More recently the apparatus itself (various embodiments of my wearcomp invention made over the last 20 years) have been on exhibit. My next exhibit is at the Ontario Science Centre, opening Feb.28.

For those interested, the Ontario Science Centre is located just south of Eglinton Avenue on Don Mills. It is accessible by TTC through bus from either Pape station or Eglinton station.

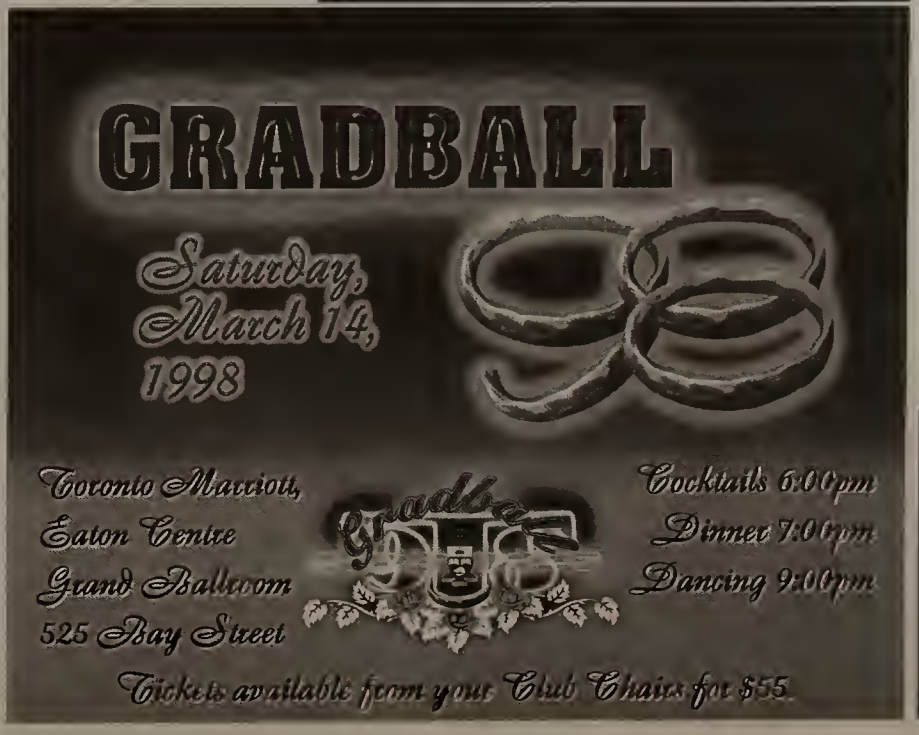
One of Professor Monn's "wearcomps".

Kevin's Really Short EngSci Club News

by Kevin Horris ENG SCI 9T8

Is it time to write another article for *The Cannon*? Why are there so many of these damn things? Well, since it seems like only a couple of days since I wrote the last one of these, I don't have an awful lot to say.
1. Fast approaching is our S. Patrick's Day smoker.
2. Eng Sci Club Exec elections are coming up.
3. T-shirt designs for the eng sci t-shirts are on display in the common room.
4. I'm just filling space.
5. That's all I have to say.
[Ed. Note: Thanks for submitting an article anyway, Kevin. Now what about you other slacker club chairs??]

Exercise Your Right: Vote



Entertainment

Get Paged by Email

The Technoguru

Greg Kunyavsky

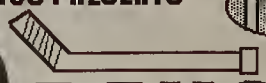
by Greg Kunyavsky COMP 0T0

Have you ever missed some important event in your life, because you didn't read your e-mail in time?

It happens to me all the time and I am sure lots of you know the feeling. You see, activities that must be performed periodically like checking e-mail and remembering to unplug the rechargeable batteries are a big mental strain for me. I need a little light that would start flashing when I get e-mail.

So here is where "The Internet Answering Machine", EZMail, comes in. It is a separate piece of hardware, not to be confused with the EZMail e-mail program. EZMail is basically a computer with a modem, CPU, RAM, printer port and oh...most importantly, the flashing light! It connects to a PC just so that you can configure the details about your e-mail account. After it is set up, you can turn off your PC and stop harming the environment (wasting energy). Meanwhile, EZMail will check in with your ISP, retrieve mail, print it, fax it to you or notify you on your pager. Personally I would not have much use for hundreds of pages of printouts of uuencoded core dumps people send me, but paging is actually a good idea. Probably not good enough to buy a $400 monitorless computer with a flashing light though. Instead, I would like to see ISP's providing such services. It would be especially useful with alphanumeric pagers where the subject line of a new e-mail message can be displayed on the pager. I'm really looking forward to that! Too bad there is no prospect of anything being marketed which would page me when my NiCd's are recharged!

SKULE™ ATHLETICS PRESENTS



S DANCE

ENGINEERING ATHLETICS AWARDS BANQUET

Thursday April 2, 1998.

Reception at 6:30pm in Hart House East Common Rm.
Dinner at 7:30 in the Great Hall, Door Prizes...
Tickets available from EAA Office in ENG. SOC. while supplies last!

$10

Blame El Niño for Teresa — and Her Photo

Teresa's Tantrum

Teresa Huang

by Teresa Huang GEO 9T9

I know exactly how many hours I slept last night. This must be a sign of maturity. During high school, I would assiduously sit in front of my desk every night until the wee hours. Trying to try to get starting on doing homework. I never knew how many or little hours of sleep I was getting, nor did it bother me. In fact, I was probably waiting for the hours to pass by so that I could brag about pulling an all-nighter on the next morning. But now, not only am I as meticulous as an anal retentive TA in keeping track of my sleeping time, "lack of sleep" is becoming like a personalized El Niño... any misfortune can somehow be linked to it.

During a particularly hectic week a few weeks ago, it was as if I were trying to realize a hidden desire to join the Smurfs. (Hey, the word "Smurf" is in the MS Word dictionary!) I became practically all blue. It was during Fireball when I decided to show my womanly side by doing something supposedly feminine, by donning geometrically ridiculous, completely impractical, and rather uncomfortable shoes known as heels. As I was trying to sway sultrily down the stairs made out of hard rocks, I suddenly realized that gravity is a bad thing. I thought for sure that I was going to roll all the way down to the first floor. Yes, the secret to my pigmentation (PIG-MEN-tation.. ha ha!) is to fall down the stairs. A few days later at a subway station, learning from my last lesson with stairs, I so gingerly did my face plant while going *up* them. The lady behind me exclaimed in such a fashion that almost startled me as badly as when I sat across a make-up artist in motion on the subway. This lady pulled out an eye pencil from her pocket and started to tease the other passengers by performing "now you see me try to deep-throat with my eye socket, now you don't!"

On a totally unrelated note, today I had a revelation on the reason why generally women have done better in writing essays than men. We have an entire network of written material on various topics locked in secret places only accessible to us. Just today I saw an organized chart on the pros and cons of euthanasia on the walls of a bathroom stall in UC. Upon further inspection I found discussions on homosexuality, the intrinsic meaning of life, and other collaborated works of deep (peed backwards!) thought. This is yet another sign of maturity displayed by university students. To liberate the bathroom walls from being merely a medium to declare one's undying love for another, traditionally by writing eloquent and well-thought out proses such as "T Luvs M", using the magic marker that one *always* carry to the bathroom. Thus if any of my gentle readers were to have a writer's block for her elective, you now know where to get inspiration.

Where do you suppose I get my ideas for this column?

this month @ skule™

MARCH 1	**2** *Notional Engineering Week Begins* *Campaigning for EngSoc Exec Begins*	**3**	**4** *Iron Ring Ceremony 4th to 5th* *Compaigning for EngSoc Exec Ends*	**5** *EngSoc Elections 5th to 6th* *MECH Smoker*	**6** *Frosh Nite II* *Conadion Engineering Competition 6th to 8th*	**7** *Notional Engineering Week Chority Event*
8	**9**	**10** *Executive Council Meeting*	**11** Skule™ Nite 9T8 8 p.m.	**12** Skule™ Nite 9T8 8 p.m.	**13** Skule™ Nite 9T8 8 p.m.	**14** Skule™ Nite 9T8 2 p.m. *GRADBALL*
15	**16** The Cannon *Cannon submissions deadline*	**17** *St. Patrick's Day*	**18**	**19**	**20**	**21** *Birthday of Benito Juarez*
22	**23**	**24** The Cannon *NEW ISSUE! Full Council Meeting* *(new EngSoc Exec takes power)*	**25**	**26**	**27**	**28** *Hart House Symphonic Band Spring Concert Great Hall 8 p.m.*